

Status Report for WI to TSG

Work Item Name: Optimisation of channelisation code utilisation 1.28Mcps TDD

SOURCE: Rapporteur (Ka Leong Lo, UTStarcom)

TSG: RAN **WG:** 1

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Ref. to WI sheet: RAN_Work_Items.doc

Progress Report since the last TSG (for all involved WGs):

RAN WG1 #40bis – two documents submitted

- R1-050365 “code utilisation and power impact of PLCCCH and DPCH with smart antenna in TDD LCR” (Revision of R1-050315)
- R1-050362 “Optimization of DL channelisation code for HSDPA in 1.28 Mcps TDD” (Revision of R1-050332)

In R1-050365, it was recommended to employ a common channel (i.e. PLCCCH) to carry HSDPA “data only” users associated uplink TPC and SS in order to relieve the code resource in heavily load system. Concern was raised on the simulation detail, but it was not stated clearly in the meeting. It was agreed to clarify the concern on the email reflector during the week after the meeting. The concern was not raised further. R1-050362 was not presented.

RAN WG1 #41 – two documents submitted

- R1-050392 “Coding Procedure for PLCCCH”
- R1-050393 “Draft Set of CRs(Rel-7, B) to 25.221&25.222&25.224 on Introduction of the Physical Layer Common Control Channel (PLCCCH)”

RAN WG1 has agreed to employ the physical layer common control channel (PLCCCH) for achieving code-saving in the downlink. After analyzing the different options, RAN WG1 has agreed in principle the coding procedure stated in R1-050392 for PLCCCH, in which maximum of 17 set of TPC/SS command pairs can be carried by a single PLCCCH. The draft set of CRs are noted and can not be processed further at this time due to the fact that there are no Release 7 TS yet available.

List of Completed elements (for complex work items):

- Agreement on the use of a common channel to carry TPC/SS for HSDPA data-only users
- Coding procedures for PLCCCH

List of open issues:

- Introduction of higher layer signalling for PLCCCH.
- Release 7 TS

Estimates of the level of completion (when possible):

70%

WI completion date review resulting from the discussion at the working group:

RAN #29 (Sept 2005)

References to WG's internal documentation and/or TRs:

R1-050573 “LS on Introduction of PLCCCH”